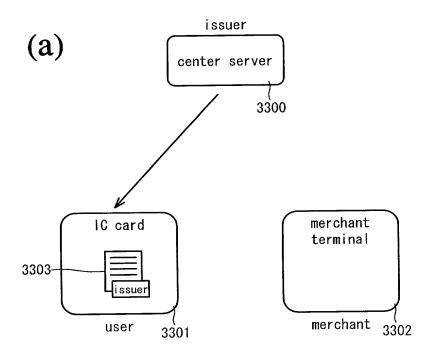
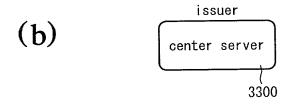
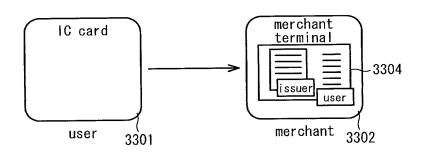
## Fig. 1 Prior Art







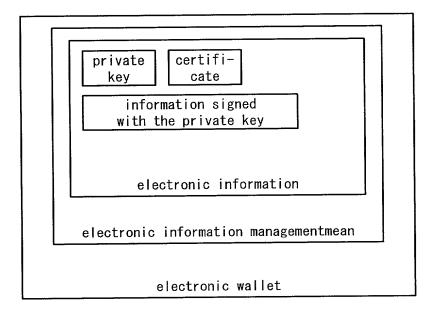
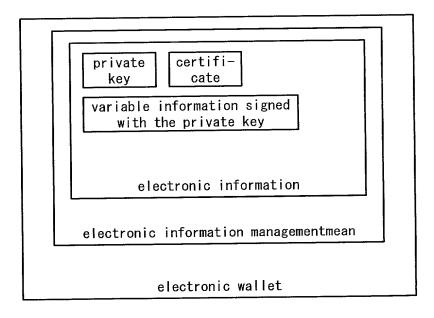


Fig. 3



THE THE CONTRACT

#### Fig. 4

private certificate

variable information signed with the private key

information signed by the issuer electronic information

electronic information managementmean

Fig. 5

private certificate

variable property information signed with the private key

fixed property information signed by the issuer electronic information

electronic information managementmean

Fig. 6

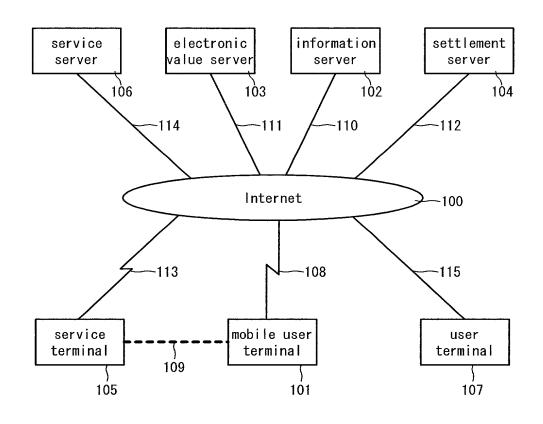
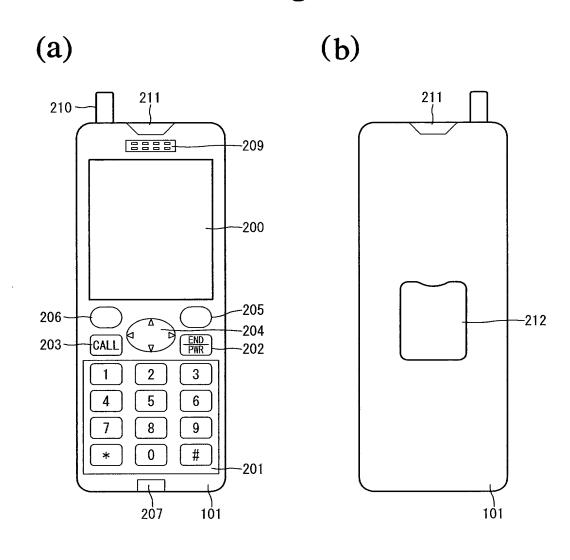
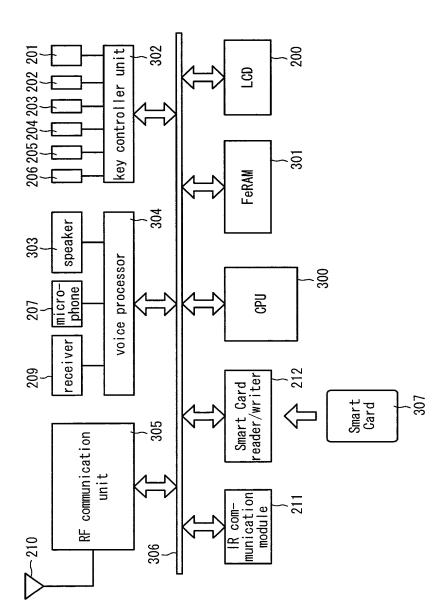
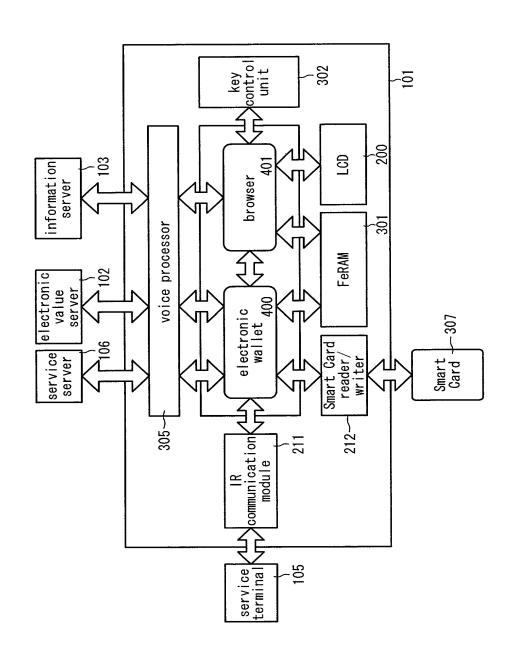


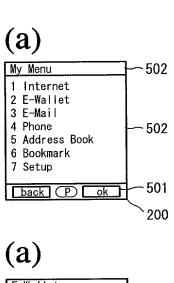
Fig. 7



T.



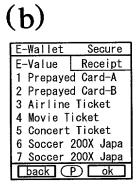




(1	<b>5</b> )
lr	nternet
3	News Play Guide Search Enter URL
-	back (P) ok









(a)

Internet	Secure
Your oder accepted.	was
Receive	e-Value
back (	P) ok

Fig. 11

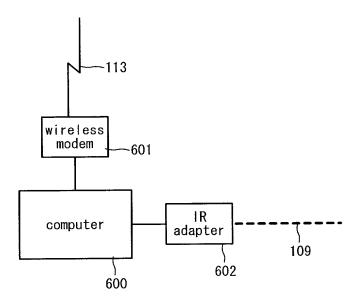


Fig. 12

115

modem
702

Smart Card computer

700

) 701 Fig. 13

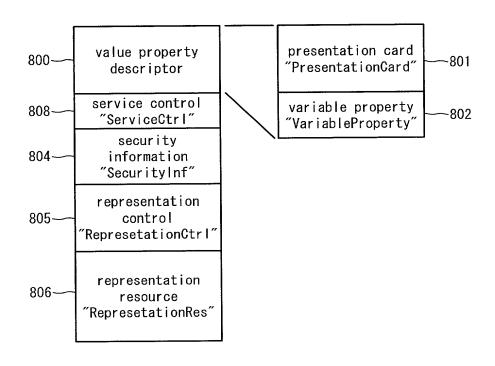
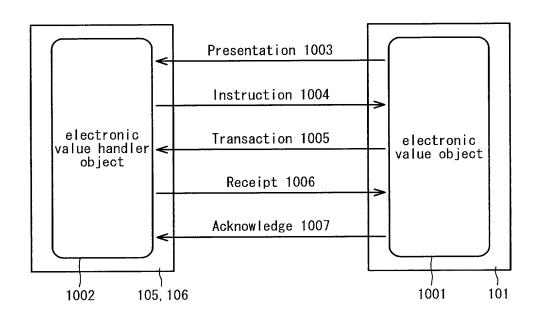
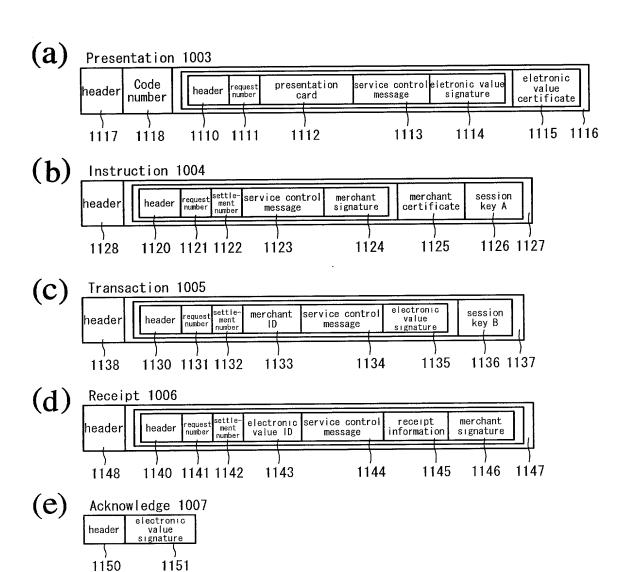


Fig. 14

900—	value property descriptor "evProperty"
903—	service control "ServiceCtrl"
904—	security information "SecurityInf"
905—	merchant option "MerchantOption"

Fig. 15





<signeddescription about="PresentationCard" evid="1000000000000000000000000000000000000&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;:&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;Signer rdf.resource=" http:="" www.evalue.com"=""></signeddescription>	~801
<signature>0123456789</signature>	presentatio
	card
<signeddescription 1000000000000000000000000000000000000<="" about="VriableProperty" evalue="" evid="1000000000000000000000000000000000000&lt;/td&gt;&lt;td&gt;&lt;del&gt;~&lt;/del&gt;802&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;:&lt;/td&gt;&lt;td&gt;variable&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;Signer rdf:resource=" http:="" td="" www.evalue.com=""><td>property</td></signeddescription>	property
<li>SignedDescription&gt;</li>	proporcy
<signeddescription></signeddescription>	
<description "="" about="ServiceCtrf" ev_0000300000000201="" evalue="" evid="1000000000000000000000000000000000000&lt;/td&gt;&lt;td&gt;&lt;del&gt;~&lt;/del&gt;805&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;rdf.resource=" http:="" representationctrl"="" rpctrl="" securityinf"="" www.evalue.com=""></description>	presentatio
	control
	OGILLO
rdf.resource="http://www.evalue.com/evalue/ev_0000300000000201/RpRes"/>	<del></del> 806
L	presentatio
<signedtime>1999,09,07T12:15:07+0900</signedtime>	resource
<signer rdf.resource="http://www.evalue.com"></signer>	
<signature>23456789AB</signature>	
SignedDescription about="http://www.evalue.com/evalue/ev_0000300000000201/RpCtrf"	ļ
-CignodDescription about - Impartment and contest and	1201
evID="1000000000000000000000000000000000000	
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	presentation control
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evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource (entity)
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource (entity)
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource (entity)  1200 description
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource (entity)  1200 description about serv
evID="1000000000000000000000000000000000000	presentation control (entity)  1202 presentation resource (entity)

```
<evType>ticket</evType>
  <evCode>000030000000201</evCode>
  <evID>100000000000000000000000000000000001</evID>
  <evName>Soccer 200X Ticket</evName>
  <evConditionBitmap>00000000000001</evConditionBitmap>
  <evProp name="TITLE" value="Soccer 200X Japan vs Brazil"/>
  <evProp name="DATE" value="2002.06.30T14:00+0900"/>
  <evProp name="GATE OPEN" value="2002.06.30T10:00+0900"/>
  <evProp name="LOCATION_NAME" value="Yokohama"/>
  <evProp name="LOCATION_URI" value="http://www.yis.co.jp/map"/>
  <evProp name="SEAT_NUM" value="SS-A-28"/>
  <evProp name="SEAT_POS" value="http://www.mts.com/ticket123/seat/SS-A-28"/>
  <evProp name="SPONSOR_NAME" value="WORLD FOOTBALL ASSOCIATION"/>
  <evProp name="SPONSOR_URI" value="http://www.wfa.org"/>
  <evProp name="CONTACT_TELNUM" value="+81-3-5460-xxxx"/>
  <evProp name="CONTACT_URI" value="http://www.mts.com/contact"/>
  <evProp name="ISSUER NAME" value="Mobile Ticket Service"/>
  <evProp name="ISSUER URI" value="http://www.mts.com"/>
  <evProp name="MESSAGE_1" value="No Dangerous Objects"/>
  <SignedTime>1999.09.07T12:15:07+0900</SignedTime>
  <Signer rdf.resource="http://www.evalue.com"/>
  <Signature>0123456789</Signature>
</SignedDescription>
<evFlag VALIDITY=1 USED=0/>
  <evProp name="USE_SERIAL" value=0/>
  <evProp name="NUMBER" value=1/>
  <evProp name="START_VALID" value="1999.07.23T00:00+0900"/>
  <evProp name="END_VALID" value="2002.06.30T23:59+0900"/>
  <evProp name="MESSAGE_2" value=/>
  <SignedTime>1999.09.07T12:15:07+0900</SignedTime>
   <Signature>123456789A</Signature>
</SignedDescription>
```

```
<SC-module type="ticket" ID=1 number=$NUMBER start=$START_VALID end=$END_VALID
   used_flag=$USED validity_flag=$VALIDITY serial=$USE_SERIAL/>
 <SC-module type="verify_prop" ID=2 prop=$SEAT_NUM/>
 <SC-module type="set_message" ID=3 msg=$MESSAGE_2/>
</Description>
<evOwner>
   EntityName="Taro Suzuki"
     </evOwner>
 <evCertificate>
   0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
 </evCertificate>
 <evPrivateKey>0123456789</evPrivateKey>
 <evAuthKey>0123456789ABCDEF</evAuthKey>
 <evhandlerAuthKey>ABCDEF0123456789</evhandlerAuthKey>
</Description>
```

```
<SignedDescription about="http://www.evalue.com/evalue/ev_0000300000000001/RpCtrt"
  <OptimumRpCtrl>
     <Description about="http://www.evalue.com/evalue/ev_000030000000201/RpCtrl_M01">
       < RpType>MOBILE 01</RpType>
       < RepresentaionCtrlData>
          <CARD name="Main">
            <HAEAD>
               <TITLE><evP>$TITLE</evP></TITLE>
            </HAEAD>
            <BODY>
             <Do type="ACCEPT">
               <Go HREF='Wallet:///evTransact'/>
             </Do>
            <CENTER><H1><evP>$TITLE</evP></H1></CENTER>
             <BR><CENTER><IMG SRC="wallet:///evResource label=MAIN_IMG"></CENTER>
             <BR><UL>Date:<evP>$DATE</evP>
             <BR>Stadium:<A HREF=<evP>$LOCATION_URI</evP>><evP>$LOCATION_NAME</evP></A>
             <BR>Seat:<A HREF=<evP>$SEAT_POS</evP>><evP>$SEAT_NUM</evP></A>
             <BR><A HREF="Detail">Details</A></UL>
             </BODY>
          </CARD>
          <CARD name="Detail">
             <HAEAD>
               <TITLE><evP>$TITLE</evP></TITLE>
             </HAEAD>
             <BODY>
             <Do type="ACCEPT">
               <Go HREF="wallet///evTransact"/>
             </Do>
             <CENTER><H1><evP>$TITLE</evP></H1></CENTER>
             <BR><UL>Date:<evP>$DATE</evP>
             <BR>Open Gate:<evP>$GATE_OPEN</evP>
             <BR>Stadium:<A HREF=<evP>$LOCATION_URI</evP>><evP>$LOCATION_NAME</evP></A>
               <BR><A HREF='wallet///evResource label=MAP">Map</A>
             <BR>Seat:<A HREF=<evP>$SEAT_POS</evP>><evP>$SEAT_NUM</evP></A>
             <BR>Term of Validity: <evV>$START_VALID</evV> - <evV>$END VALID</evV>
             <BR>Sponsor.<A HREF=<evP>$SPONSOR_URI</evP>><evP>$SPONSOR_NAME</evP></A>
             <BR>Contact:<A HREF="telephone:///dial num=<evP>$CONTACT_TELNUM</evP>">
               <evP>$CONTACT_TELNUM</evP></A>
             <BR>Issuer:<A HREF=<evP>$ISSUER_URI</evP>><evP>$ISSUER_NAME</evP></A>
             <BR><evP>$MESSAGE 1</evP>
             <BR><evV>$MESSAGE 2</evV>
             <BR><A HREF="Main">Top Page</A></UL>
             </BODY>
          </CARD>
        </RpresentaionCtrlData>
      </Description>
   </OptimumRpCtrl>
   <SignedTime>1999.09.07T12:15:07+0900</SignedTime>
   <Signer rdf.resource="http://www.evalue.com"/>
   <Signature>3456789ABC</Signature>
</SignedDescription>
```

11 St. 18

```
< Description about="http://www.evalue.com/evalue/ev_00003000000000201/RpRes"
  <OptimumRpRes>
    <lmage>
       URI="http://www.evalue.com/resources/0123456789ABCDEF"
       label="MAIN_IMG"
       type="jpeg"
       data="1202A846574A63D946 ...... B48364605987F687543"
     <lmage>
       URI="http://www.evalue.com/resources/123456789ABCDEF0"
       label="MAP"
       type="jpeg"
       data="202A846574A63D946B ...... 48364605987F687543F"
     </lmage>
     <Sound>
       URI="http://www.evalue.com/resources/23456789ABCDEF01"
       label="Greet"
       type="mp3"
       data="1202A846574A63D946 ...... B48364605987F687543"
     </Sound>
   </OptimumRpRes>
</Description>
```

```
<EVML version="0.1">
  <CARD name="Main">
    <HAEAD>
       <TITLE>Soccer 200X Japan vs Brazil </TITLE>
    </HAEAD>
    <BODY>
       <Do type="ACCEPT">
          <Go HREF="wallet:///evTransact"/>
       </Do>
       <CENTER><H1>Soccer 200X Japan vs Brazil </H1></CENTER>
       <BR><CENTER><IMG SRC="wallet:///evResource label=MAIN_IMG"></CENTER>
       <BR><UL>Date: 2002.06.30T14:00+0900
       <BR>Stadium:<A HREF="http://www.yis.co.jp/map"> Yokohama </A>
       <BR>Seat:<A HREF="http://www.mts.com/ticket123/seat/SS-A-28"> SS-A-28</A>
       <BR><A HREF="Detail">Details</A></UL>
     </BODY>
  </CARD>
</EVML>
```

```
<EVML version="0.1">
 <Description about="evMerchant.///evHandler/evh00000001">
   <SignedDescription>
     <evType>ticket</evType>
       <evCode>0000300000000201</evCode>
       <evhandleriD>200000000000000000000000000001</evhandleriD>
       <evName>Soccer 200X Ticket</evName>
       <evConditionBitmap>00000000000001</evConditionBitmap>
       <evProp name="TITLE" value="Soccer 200X Japan vs Brazil"/>
       <evProp name="DATE" value="2002.06.30T14:00+0900"/>
       <evProp name="GATE_OPEN" value="2002.06.30T10:00+0900"/>
       <evProp name="LOCATION_NAME" value="Yokohama"/>
       <evProp name="LOCATION_URI" value="http://www.yis.co.jp/map"/>
                                                                        900
       <evProp name="SEAT_NUM" value= permission="public"/>
                                                                         value property
                                                                         descriptor
       <evProp name="MESSAGE_Z" value= permission="public"/>
     </br><br/>

     <SC-module type="ticket" ID=1 number=$NUMBER start=$START_VALID end=$END_VALID
                                                                         903
         used_flag=$USED validity_flag=$VALIDITY serial=$USE_SERIAL />
                                                                         service
       <SC-module type="verify_prop" ID=2 prop=$SEAT_NUM/>
                                                                         control
       <SC-module type="set_message" ID=3 msg=$MESSAGE_2/>
     </br>
      <evhandlerOwner>
         EntityName="ABC Event Service"
           </evhandlerOwner>
                                                                         904
       security
                                                                         information
       <evAuthKey>0123456789ABCDEF</evAuthKey>
       <evhandlerAuthKey>ABCDEF0123456789</evhandlerAuthKey>
     </br>

     <SignedTime>1999.09.07T12:15:07+0900</SignedTime>
     <Signer>
       <Description about="http://www.evalue.com">
         <EntityName>Mobile Ticket Service
         <Email>ev_issuer@evalue.com/Email>
         <Telnum>81-3-5460-xxxx/Telnum>
       </Description>
     </Signer>
     <Signature>23456789AB</Signature>
   </SignedDescription>
  905
     <SetevProp>$SEAT_NUM="SS-*-"</SetevProp>
     <SetevProp>$MESSAGE_2="Special News available: http://www.yis.co.jp/news/20020630"
                                                                         merchant
     </setevProp>
                                                                         option
   </Description>
 </br>
Description>
<⁄EVML>
```

</SC-MSG>

ONE TANK LESTED BOTH

```
(a)
    <SC-MSG>
      <scm_msg ID=1 number=1 start="1999.07.23T00:00+0900" end="2002.06.30T23:59+0900"</pre>
         used_flag=0 validity_flag=1 serial=0/>
      <scm_msg ID=2 prop="SS-A-28"/>
      <scm_msg ID=3 msg=/>
    </SC-MSG>
(b)
    <SC-MSG>
      <scm_msg ID=1 number=0 start="2002.06.30T12:25+0900" end="2002.06.30T23:59+0900"</pre>
         used_flag=1 validity_flag=1 serial=1/>
      <scm_msg ID=3 msg="Special News available: http://www.yis.co.jp/news/20020630"/>
    </SC-MSG>
(c)
    <SC-MSG>
      <scm_msg ID=1 number=0 start="2002.06.30T12:25+0900" end="2002.06.30T23:59+0900"</pre>
         used flag=1 validity_flag=1 serial=1/>
      <scm_msg ID=2 prop="SS-A-28"/>
      <scm_msg ID=3 msg="Special News available: http://www.yis.co.jp/news/20020630"//>
    </SC-MSG>
(d)
    <SC-MSG>
         <scm_msg ID=1 serial=1/>
```

<evFlag VALIDITY=1 USED=1/>

<evProp name="USE SERIAL" value=1/>

<evProp name="NUMBER" value=0/>

<evProp name="START\_VALID" value="2002.06.30T12:25+0900"/>

<evProp name="END\_VALID" value="2002.06.30T23:59+0900"/>

<evProp name="MESSAGE\_2" value="Special News available: http://www.yis.co.jp/news/20020630"/>

<SignedTime>2002.06.30T12:25+0900</SignedTime>

<Signature>A12345678A</Signature>

</SignedDescription>

```
<EVML version="0.1">
  <CARD name="Receive EV">
     <HAEAD>
        <TITLE>Receive Electronic Value</TITLE>
     </HAEAD>
     <BODY>
       Your order was accepted.
        <BR>
        <CENTER>
        <H1>
          <Go HREF='Wallet:///evReceive'>
             <param name="EV_ISSUER_URI" value="http://www.evalue.com"/>
             <param name="SESSION_NUM" value="a01b23c45d67e89f"/>
             Receive e-Value
          </Go>
        </H1>
        </CENTER>
     </BODY>
  </CARD>
</EVML>
```

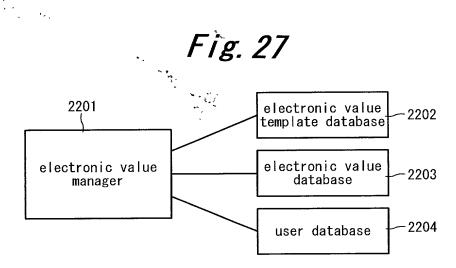
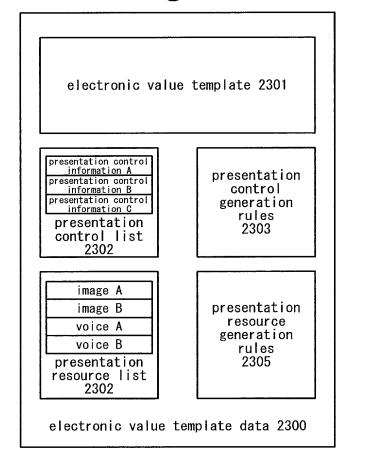
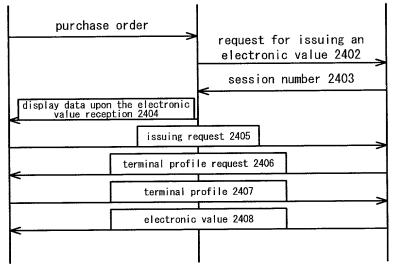


Fig. 28



(a)
mobile user terminal 101
user terminal 107

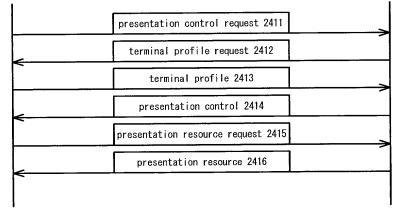
information server 102 electronic value server 103



(b)

mobile user terminal 101 user terminal 107

electronic value server 103



```
(a)

<Description about="evIssuingRequest" ID="1000000000000123">

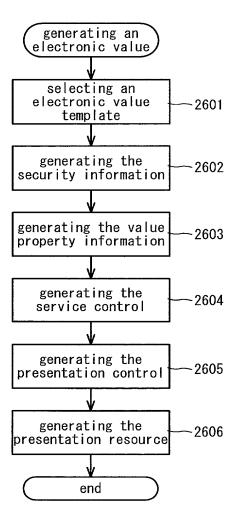
<evType>ticket<evType>
<evCode>0000300000000201</evCode>
<evProp name="SEAT_NUM" value==" SS-A-28"/>
<evProp name="SEAT_POS" value=" http://www.mts.com/ticket123/seat/SS-A-28"/>
</Description>

(b)

<Description about="TerminalProfile" >

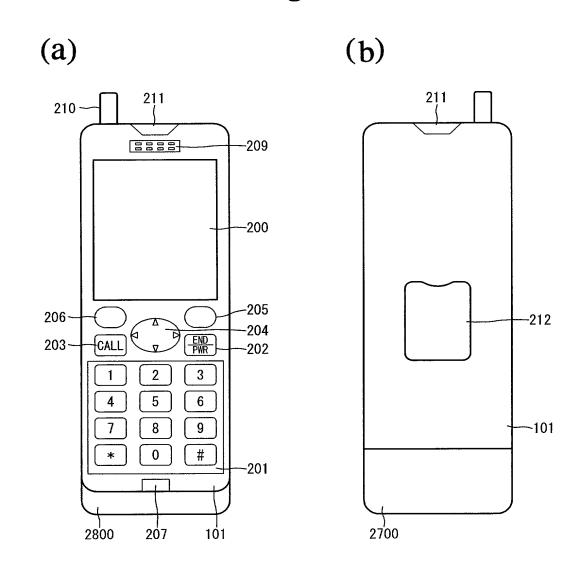
<TerminalType>MT0001</TerminalType>
<BrowserType>B000B20A</BrowserType>
<eWalletType>W000A10B</eWalletType>
<Screen>160x200x8</Screen>
</Description>
```

Fig. 31



EVML version="0.1">	
<description about:="http://www.evalue.com/evalue/1000000000000000000000000000000000000&lt;/th&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;SignedDescription about=" evid="1000000000000000000000000000000000000&lt;/th&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;;&lt;/th&gt;&lt;td&gt;001&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;&lt;Signer rdf.resource=" http:="" presentationcard"="" www.evalue.com"=""></description>	<del>-</del> 801
<signature>0123456789</signature>	presentation
<pre></pre> <pre>&lt;</pre>	card
,	=
<signeddescription 1000000000000000000000000000000000000<="" about="VriableProperty" evalue="" evid="1000000000000000000000000000000000000&lt;/th&gt;&lt;td&gt;₩ 802&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;:&lt;/th&gt;&lt;td&gt;variable&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;Signer rdf.resource=" http:="" th="" www.evalue.com=""><td>property</td></signeddescription>	property
<signature>123456789A</signature>	1
<pre></pre>	.I
Other of December 1	
<signeddescription>   <description about="ServiceCtrl" ev_00003000000000201="" evalue="" evid="1000000000000000000000000000000000000&lt;/th&gt;&lt;td&gt;&lt;del&gt;&lt;/del&gt;804&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;·&lt;/th&gt;&lt;td&gt;security&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/br&gt; Oescription&gt;&lt;/th&gt;&lt;td&gt;information&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;- macron&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Control   Control   Con&lt;/th&gt;&lt;td&gt;&lt;del&gt;~~&lt;/del&gt;805&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;rdf.resource=" http:="" rpctrl"="" securityinf"="" www.evakue.com=""></description></signeddescription>	<pre>presentation</pre>
	control
<description about="RepresentationRes" ev_0000300000000201="" evalue="" evid="1000000000000000000000000000000000000&lt;/th&gt;&lt;td&gt;000&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;rdf.resource=" http:="" rpres"="" www.evalue.com=""></description>	<b>→806</b>
	presentation
<signedtime>1999.09.07T12:15:07+0900</signedtime>	resource
<signer rdf.resource="http://www.evalue.com"></signer>	
<signature>23456789AB</signature>	
<signeddescription <="" about="http://www.evalue.com/evalue/ev_0000300000000001/RpCtrf" p=""></signeddescription>	ī
eviD=*1000000000000000000000000000000000000	
ONE TOURISMOND	1
Signer rdf.resource="http://www.evalue.com"/>	<del>1201</del>
<signature>3456789ABC</signature>	presentation
<pre></pre> <pre>&lt;</pre>	control
	(entity)
< Description about="http://www.evalue.com/evalue/ev_00003000000000201/RpRes"	
eviD="1000000000000000000000000000000000001">	1202
:	
	presentation
	resource (ontity)
<pre><description about="http://www.evalue.com"></description></pre>	(entity)
<entityname>Mobile Ticket Service</entityname>	1
<entityid>000000000000000000000000000000000000</entityid>	1200
<email>ev_issuer@evalue.com</email>	description
<telnum>81-3-5460-xxxx/Telnum&gt;</telnum>	about service
	- provider
/Description>	proridor
<evml></evml>	

Fig. 33



FIR. 34

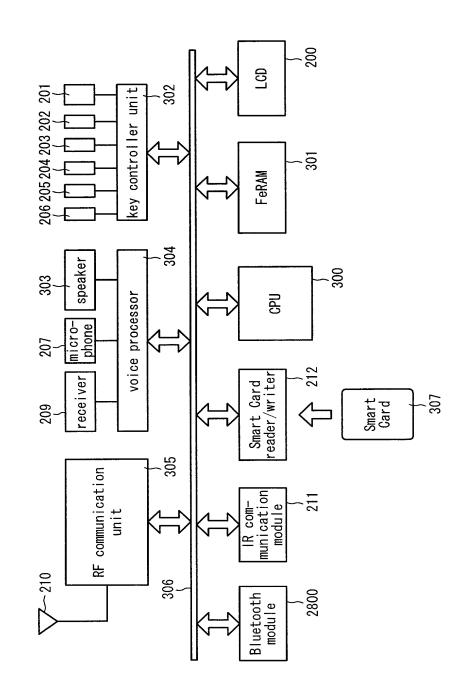
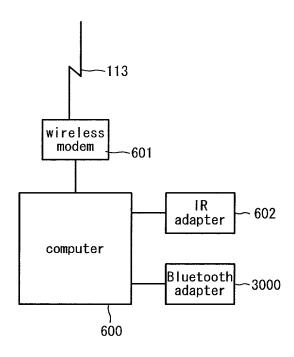


Fig. 35



the third in the me exempt

Fig. 36

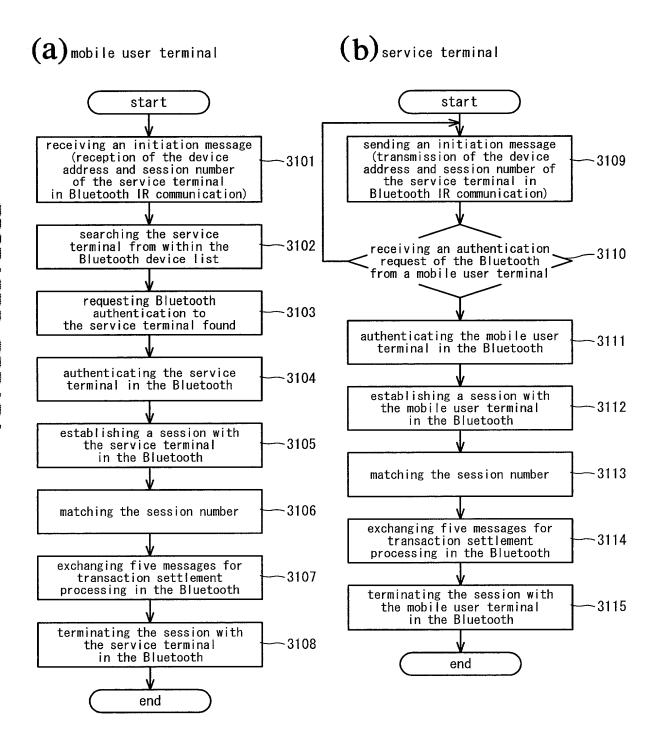


Fig. 37

